Please cancel claims 32 and 43 and amend claims 29 and 40 as follows:

CLAIMS (Complete set)

- 29. (Currently amended) A die, comprising:
- a first conductor carrying a power supply voltage;
- a second conductor carrying a ground voltage; and
- a semiconductor decoupling capacitor to provide decoupling capacitance between the first and second conductors, the semiconductor decoupling capacitor including:
 - (a) a gate electrode coupled to the first conductor to receive the power supply voltage,
 - (b) a diffusion coupled to the second conductor to receive the ground voltage, and
 - (c) a body to receive the ground voltage through the diffusion, the semiconductor decoupling capacitor thereby being in depletion mode[[.]];

wherein the diffusion is a first diffusion and the semiconductor decoupling capacitor further includes a second diffusion coupled to the second conductor to receive the ground voltage and wherein the body receives the ground voltage through the first and second diffusions.

- 30. The die of claim 29, wherein gate electrode is p-type and the diffusion and the body are n-type.
- 31. The die of claim 29, wherein gate electrode is p-type and the diffusion and the body are n-type, with the diffusion being more heavily doped than the body.
 - 32. (Canceled)
- 33. The die of claim 32, wherein the first and second diffusions are source/drain diffusions.
- 34. (Previously presented) The die of claim 32, wherein the first and second diffusions are more heavily doped than the body.
- 35. The die of claim 29, wherein the semiconductor decoupling capacitor has a flatband voltage and wherein the power supply voltage has a smaller absolute value than does the flatband voltage.
- 36. The die of claim 29, wherein gate electrode is p-type and the diffusion and the body are n-type, and wherein the diffusion is a body tap diffusion and the semiconductor decoupling capacitor further includes first and second source/drain diffusions that are p-type.
 - 37. The die of claim 36, wherein the first and second source/drain diffusions are

coupled to the second conductor to receive the ground voltage.

- 38. The die of claim 36, wherein the body tap diffusion and first and second source/drain diffusions are more heavily doped than the body.
- 39. The die of claim 36, wherein the semiconductor decoupling capacitor has a flatband voltage and wherein the power supply voltage has a smaller absolute value than does the flatband voltage.
 - 40. (Currently amended) A die, comprising:
 - a first conductor carrying a power supply voltage;
 - a second conductor carrying a ground voltage; and
- a semiconductor decoupling capacitor to provide decoupling capacitance between the first and second conductors, the semiconductor decoupling capacitor including:
 - (a) a gate electrode coupled to the second conductor to receive the ground voltage,
 - (b) a diffusion coupled to the first conductor to receive the power supply voltage,
 - (c) a body to receive the power supply voltage through the diffusion, the semiconductor decoupling capacitor thereby being in depletion mode,
 - (d) a substrate, and
 - (e) an insulation between the substrate and the body[[.]];

wherein the diffusion is a first diffusion and the semiconductor decoupling capacitor further includes a second diffusion coupled to the first conductor to receive the power supply voltage and wherein the body receives the power supply voltage through the first and second diffusions.

- 41. The die of claim 40, wherein gate electrode is n-type and the diffusion and the body are p-type.
- 42. The die of claim 40, wherein gate electrode is n-type and the diffusion and the body are p-type, with the diffusion being more heavily doped than the body.
 - 43. (Canceled)
- 44. The die of claim 43, wherein the first and second diffusions are source/drain diffusions.
- 45. (Previously presented) The die of claim 43, wherein the first and second diffusions are more heavily doped than the body.

- 46. The die of claim 40, wherein the semiconductor decoupling capacitor has a flatband voltage and wherein the power supply voltage has a smaller absolute value than does the flatband voltage.
- 47. The die of claim 40, wherein gate electrode is n-type and the diffusion and the body are p-type, and wherein the diffusion is a body tap diffusion and the semiconductor decoupling capacitor further includes first and second source/drain diffusions that are n-type.
- 48. The die of claim 47, wherein the first and second source/drain diffusions are coupled to the second conductor to receive the ground voltage.
- 49. The die of claim 47, wherein the body tap diffusion and first and second source/drain diffusions are more heavily doped than the body.
- 50. The die of claim 47, wherein the semiconductor decoupling capacitor has a flatband voltage and wherein the power supply voltage has a smaller absolute value than does the flatband voltage.